PATENT COOPERATION TREATY

To:

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The International Bureau of WIPO PCT Receiving Office Section 34, chemin des Colombettes 1211 Geneva 20

Switzerland Applicant's or agent's file reference Facsimile No. +41 22 910 06 10 1085-023WO01 International application No. International filing date (day/month/year) (Earliest) Priority date (if known) (day/month/year) 07 December 2004 (07.12.2004) **Applicant** NISSAN MOTOR CO., LTD. et al. Title of invention BIPOLAR ELECTRODE BATTERIES AND METHODS OF MANUFACTURING BIPOLAR ELECTRODE BATTERIES The applicant hereby requests the International Bureau to acknowledge to the following person (include full name, address, facsimile No. and telephone No.): Kent J. Sieffert Telephone: 651-735-1100 Shumaker & Sieffert, P.A. Facsimile: 651-735-1102 8425 Seasons Parkway, Suite 105 St. Paul, Minnesota **United States of America** the receipt by the following means: mail (surface, air mail, registered) facsimile transmission delivery service hand delivery of the documents/elements listed below: PCT request (including declaration sheets) 5 pages) description (excluding sequence listing and/or tables relating thereto) 31 pages) X claims pages) 3 X abstract pages) 1 drawings (5 pages) sequence listing and/or tables relating thereto pages) fee calculation sheet separate authorization to charge deposit account cheque (indicate currency and amount) \$3238.00 (U.S. Dollars) cash (in person only) (indicate amount) power of attorney (general power, copy of general power, separate power) (indicate kind and number) statement explaining lack of signature (if more than one, indicate number) priority document (if more than one, indicate number) 1 separate indications concerning deposited microorganism or other biological material (sequence listing and/or tables relating thereto in electronic form (indicate type and number of carriers)

statement accompanying sequence listing and/or tables relating thereto in electronic form (if more than one,

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indicate number)
accompanying letter
other (specify):

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REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For rece	eiving Office use only
International Application No	0.
International Filing Date	
Name of receiving Office ar	nd "PCT International Application"

according to the Fatent Cooperation	reaty.	Name of receiving Of	fice and "PCT Inte	ernational Application"
		Applicant's or agent's (if desired) (12 charact	file reference ters maximum) 1	085-023WO01
Box No. I TITLE OF INVENTION				
BIPOLAR ELECTRODE BATTER	IES AND MET	THODS OF MANI	JFACTURING	G BIPOLAR
FI ECTRODE BATTERIES Box No. II APPLICANT				
	_=	n is also inventor		
Name and address: (Family name followed by given The address must include postal code and name of cour Box is the applicant's State (that is, country) of residence			Telephone No.	
NISSAN MOTOR CO., LTD.		•	Facsimile No.	
2 Takara-cho, Kanagawa-ku				
Yokohama-shi, Kanagawa 221-	0023		Teleprinter No.	
Japan				•
			Applicant's regi	stration No. with the Office
State (that is, country) of nationality:		State (that is, country)	of residence:	
Japan		Japan		
This person is applicant for the purposes of: all designated States	all designated the United St	States except ates of America	the United States of America only	the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) A				
Name and address: (Family name followed by given of the address must include postal code and name of count Box is the applicant's State (that is, country) of residence NISSAN NORTH AMERICA 990 West 190th Street Torrance, California 90502 United States of America			inventor marked,	nt only nt and inventor r only (If this check-box is do not fill in below.) stration No. with the Office
State (that is, country) of nationality: U.S.		State (that is, country) U.S.	of residence:	
This person is applicant for the purposes of:	all designated	States except ates of America	the United States	the States indicated in
[24]			of America only	the Supplemental Box
Further applicants and/or (further) inventor	rs are indicated on	a continuation sheet.		
Box No. IV AGENT OR COMMON REPR			CORRESPOND	ENCE
The person identified below is hereby/has been a of the applicant(s) before the competent Internat	ional Authorities a	ıs:	agent	common representative
Name and address: (Family name followed by given n. The address must include postal	ame; for a legal entity code and name of co	r, full official designation. nuntry.)	Telephone No. 651-735-11	100
SIEFFERT, Kent J.		ŀ	Facsimile No.	
Sidifface a Siellert, P.A.			651-735-11	102
8425 Seasons Parkway, Suite 1	05		Teleprinter No.	<u></u>
St. Paul, Minnesota 55125			reiepilitei No.	
United States of America		}	A continue	on No with the Com
			41,312	on No. with the Office
Address for correspondence: Mark this c space above is used instead to indicate a sp	heck-box where no ecial address to w	o agent or common repr hich correspondence sh	esentative is/has bould be sent.	een appointed and the

Continuation of Box No. III FURTHER APPLICANT(S) AND (C)	
If none of the following sub-boxes is used, this sheet should not be inc	R (FURTHER) INVENTOR(S)
Name and address: Family C.I.	
Box is the applicant's State (that is, country) of residence if no State of residence is indi	s indicated in this
i nosaka, kenji	applicant only
3-15-11-414 Morisaki, Yokosuka-shi	applicant and inventor
Kanagawa 238-0023	inventor only (If this check-box
Japan	is marked, do not fill in below.)
	Applicant's registration No. with the Office
State (that is, country) of nationality: State	(that is, country) of residence:
Japan Jap	
This person is applicant for the purposes of: all designated states ending the United States of August 1985.	merica of America only the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity, full office the address must include postal code and name of courts.) The address must include postal code and name of courts.	cial designation. This person is:
The address must include postal code and name of country. The country of the address Box is the applicant's State (that is, country) of residence if no State of residence is indic	indicated in this
SHIMAMURA, Osamu	причин от
1-67-41-510 Higiriyama, Kohnan-ku	applicant and inventor
Yokohama-shi, Kanagawa 233-0015	inventor only (If this check-box is marked, do not fill in below.)
Japan	
	Applicant's registration No. with the Office
State (that is, country) of nationality: Japan State (that is, country) of nationality:	that is, country) of residence:
This	<u>n</u>
This person is applicant for the purposes of: all designated States ex the United States of An	the United States the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity, full office The address must include postal code and name of country. The country of the address is box is the applicant's State (that is, country) of residence if no State of residence is indicated the Horizont of the Address in t	ial designation. indicated in this ited below.) This person is: applicant only applicant and inventor
Kanagawa 237-0076 Japan	inventor only (If this check-box is marked, do not fill in below.)
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SAITO, Takamitsu	
11-6-1402 Nohkendai-higashi, Kanazawa-ku	applicant and inventor
Yokohama-shi, Kanagawa 236-0076	inventor only (If this check-box is marked, do not fill in below.)
Japan -	
	Applicant's registration No. with the Office
Japan Japan	nt is, country) of residence:
This person is applicant all designated States except the purposes of: all designated the United States except the United States of American	the United States the States indicated in
Further applicants and/or (further) inventors are indicated on another	continuation sheet.

Continuation of Box No. III FURTHER APPLICANT(S)		
Lionit(6)	AND/OR (FURTHER) INVENTOR(S)	
If none of the following sub-boxes is used, this sheet should no		
Name and address: (Family name followed by given name: for a legal entitude address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of resident KINOSHITA, Takuya 7-18-7 Funakoshicho, Yokosuka-shi Kanagawa 237-0062 Japan State (that is, country) of nationality:	y, full official designation. This person is:	this check-box tfill in below.)
Japan This person is applicant	Japan	
	tes of America only th	ne States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence ABE, Takaaki 1-1-1-2402 Sugita, Isogo-ku Yokohama-shi, Kanagawa 235-0033 Japan	This person is: applicant only applicant and inv inventor only (If is marked, do not Applicant's registration N	this check-box fill in below.)
State (that is, country) of nationality: Japan	State (that is, country) of residence: Japan	
This person is applicant all designated for the purposes of:	States except the United States the	e States indicated in e Supplemental Box
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence KIRIU, Naoto 1-11-6-202 Nagase Yokosuka-shi, Kanagawa 239-0826 Japan		his check-box fill in below.)
State (that is, country) of nationality: Japan	State (that is, country) of residence:	
This person is applicant all designated to the second seco	Japan	
for the purposes of: States the United State	s of America only the	States indicated in Supplemental Box
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of country. The country of the above the applicant's State (that is, country) of residence if no State of residence is the applicant.	full official designation. address indicated in this is indicated below.) This person is: applicant only applicant and inve inventor only (If the is marked, do not form.) Applicant's registration Not	his check-box fill in below.)
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This person is applicant for the purposes of: all designated States all designated States	of A-radian	States indicated in Supplemental Box
Further applicants and/or (further) inventors are indicated on a	nother continuation sheet.	

Sheet	No	4

Box No. V DESIGNATIONS							
The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.							
However,							
DE Germany is not d	lesignated for any kind of nat	tional protection					
KR Republic of Kore	a is not designated for any k	sind of national protection					
RU Russian Federation	on is not designated for any l	kind of national protection					
	be used to exclude (irrevocab ier national application from ions in these and certain othe		rned in order to avoid the See the Notes to Box No	ceasing of the effect, under . V as to the consequences			
Box No. VI PRIORITY	CLAIM						
The priority of the following	g earlier application(s) is here	by claimed:					
Filing date	Number	T v	Where earlier application	is:			
of earlier application (day/month/year)	of earlier application	national application: country or Member	regional application:*	international application:			
		of WTO	regional Office	receiving Office			
item (1) 07 December 2004 (07.12.2004)	2004-354526	JP					
item (2) 28 October 2005 (28.10.2005)	2005-315147	JP					
item (3)							
Further priority claims	are indicated in the Suppleme	ental Box.					
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:							
	em (1)	2) item (3)	—	- C - 1			
* Where the earlier application	on is an ARIPO application, in Member of the World Trade	ndianta at land and annual		the Supplemental Box Intion for the Protection of the State (Puls 4 104)(i)).			
	•••••	·····	· · · · · · · · · · · · · · · · · · ·				
Box No. VII INTERNATIONAL SEARCHING AUTHORITY							
		IIIOMII .	Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):				
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Choice of International Sea international search, indicate ISA / EP. Request to use results of ear International Searching Author Date (day/month/year) Box No. VIII DECLARAT The following declarations a check-boxes below and indicated the property of	rching Authority (ISA) (if response) the Authority chosen; the two critical responses to the application as to the applicate, to apply for and be granted to the application as to the application as to the applicate, to apply for and be granted to the application as the applica	wo or more International So- letter code may be used): that search (if an earlier sec Country (or regional VIII (i) to (v) (mark the apparent of each type of declarate y of the inventor cant's entitlement, as at the canted a patent cant's entitlement, as at the	arch has been carried out Office) plicable tion):	Number of declarations			
Choice of International Sea international search, indicate ISA / EP. Request to use results of ear International Searching Author Date (day/month/year) Box No. VIII DECLARAT The following declarations a check-boxes below and indicate Box No. VIII (i) Box No. VIII (ii)	riching Authority (ISA) (if restriction in the Authority chosen; the two critics search; reference to the prity): Number TIONS are contained in Boxes Nos. at in the right column the number in the right column the number in the right column to the applicate, to apply for and be greater than the price of the search of the price	wo or more International So- better code may be used): that search (if an earlier sec Country (or regional VIII (i) to (v) (mark the applier of each type of declaration y of the inventor cant's entitlement, as at the canted a patent cant's entitlement, as at the of the earlier application	orch has been carried out Office) plicable tion): international filing	Number of declarations			

Sheet No	5
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Box No. IX CHECK LIST;	LANGUAGE	OF FILING	
This international application co (a) on paper, the following num sheets:		This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items
request (including		1. A fee calculation sheet	
declaration sheets)	: 5	2. original separate power of attorney	: -
description (excluding sequence listing and/or		3. Original general power of attorney	:
tables related thereto)	: 31		:
claims	: 3	4. Copy of general power of attorney; reference number, if any:	
abstract	: 1	5. statement explaining lack of signature	
drawings	5	6. priority document(s) identified in Box No. VI as	•
Sub-total number of sheets		nem(s):	: 1
sequence listing	: 45 ·	7. Translation of international application into	
tables related thereto	• •	(language):	:
(for both, actual number	-	8. separate indications concerning deposited microorganism or other biological material	
of sheets if filed on paper, whether or not also		9. sequence listing in electronic form	:
filed in electronic form; see (c) below)		(indicate type and number of carriers) (i) □ copy submitted for the purposes of international search under	
Total number of sheets	45	Rule 131er only (and not as part of the international application	ı) :
(b) only in electronic form (Section 801(a)(i))		(ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	:
(i) sequence listing (ii) tables related thereto		(iii) together with relevant statement as to the identity of the copy of copies with the sequence listing mentioned in left column	r :
(c) also in electronic form (Section 801(a)(ii))		10. ☐ tables in electronic form related to sequence listing (indicate type and number of carriers)	
(i) ☐ sequence listing(ii) ☐ tables related thereto		 (i) copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application) 	
Type and number of carriers CD-ROM, CD-R or other) on v contained the	(diskette, vhich are	(ii) (iii) (iii) (iii) or (c)(ii) is marked in left column) additional copies including where applicable the copy for the	:
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(additional copies to be indicate	ed under	other (specify): P.C.T/RO/198 (RO/IB)	: : 1
items 9(ii) and/or 10(ii), in right	nt column)		• •
Figure of the drawings which should accompany the abstract:	1	Language of filing of the international application: English	
Box No. X SIGNATURE OF Next to each signature, indicate the name	APPLICANT of the person sign	, AGENT OR COMMON REPRESENTATIVE ing and the capacity in which the person signs (if such capacity is not obvious from reading the	ha ramuant)
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rioni o. Olonoit			
Agent for Applicant			
		For receiving Office use only	
 Date of actual receipt of the pu international application: 	rported	2. Drawin	ngs:
Corrected date of actual receipt timely received papers or draw the purported international app	nos completino	recei ¹	ved:
4. Date of timely receipt of the recorrections under PCT Article	nited	not re	ceived:
5. International Searching Authori (if two or more are competent):	ty ISA /	6. Transmittal of search copy delayed until search fee is paid	ļ
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Date of receipt of the record copy by the International Bureau:			1
orm PCT/RO/101 (last sheet) (Oct			

This sheet is not part of and does not count as a sheet of the international application.

For receiving Office use only FEE CALCULATION SHEET Annex to the Request International Application No. Applicant's or agent's file reference 1085-023WO01 Date stamp of the receiving Office Applicant NISSAN MOTOR CO., LTD. et al. CALCULATION OF PRESCRIBED FEES 1. TRANSMITTAL FEE 79.00 T 1877.00 ន International search to be carried out by (If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.) 3. INTERNATIONAL FILING FEE Where items (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets Where items (b) and (c) of Box No. IX do not apply, enter Total number of sheets 1102.00 i2 180.00 i2 number of sheets in excess of 30 fee per sheet additional component (only if a sequence listing and/or tables related thereto are filed in electronic form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)): 0.00 i3 400 x __ 1282.00 Add amounts entered at i1, i2 and i3 and enter total at I . . . (Applicants from certain States are entitled to a reduction of 75% of the international filing fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.) 4. FEE FOR PRIORITY DOCUMENT (if applicable) 0.00 P 5. TOTAL FEES PAYABLE 3238.00 Add amounts entered at T, S, I and P, and enter total in the TOTAL box TOTAL MODE OF PAYMENT (Not all modes of payment may be available at all receiving Offices) authorization to charge deposit account (see below) postal money order ash cash coupons cheque bank draft revenue stamps other (specify): AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT (This mode of payment may not be available at all receiving Offices) Receiving Office: RO/_ Deposit Account No.: ___ Authorization to charge the total fees indicated above. (This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above. Date: Name: _

Authorization to charge the fee for priority document.

Signature: